

FIG. 1

The diagram illustrates the internal architecture of a Digital Key Telephone Interface Unit (RDKU), designated by reference numeral 13. The unit is connected to external systems via a PCM HIGHWAY (18) and a DATA HIGHWAY (17).

Internal Components:

- Transducers (130₁, 130₂, ..., 130_n):** These are connected to the external "TO DKT" lines. Each transducer is linked to a corresponding Ping-Pong Transmission Circuit.
- Ping-Pong Transmission Circuits (131₁, 131₂, ..., 131_n):** These circuits manage the bidirectional flow of data between the transducers and the internal processing units.
- Time Slot Assigner (132):** This unit is responsible for assigning time slots for data transmission over the PCM HIGHWAY.
- Control Data Communication Micro-Computer (133):** This micro-computer controls the overall operation of the unit, including the Time Slot Assigner and the Ping-Pong Transmission Circuits.

Connections and Data Flow:

- The Ping-Pong Transmission Circuits (131₁, 131₂, ..., 131_n) are connected to the Time Slot Assigner (132) and the Control Data Communication Micro-Computer (133) via bidirectional lines labeled (B1, B2) and (D).
- The Time Slot Assigner (132) is connected to the PCM HIGHWAY (18) via a bidirectional line.
- The Control Data Communication Micro-Computer (133) is connected to the DATA HIGHWAY (17) via a bidirectional line.

External Connections:

- The unit is connected to the external "TO DKT" lines via the Transducers (130₁, 130₂, ..., 130_n).
- The unit is connected to the external PCM HIGHWAY (18) via the Time Slot Assigner (132).
- The unit is connected to the external DATA HIGHWAY (17) via the Control Data Communication Micro-Computer (133).

FIG. 2

FIG. 3

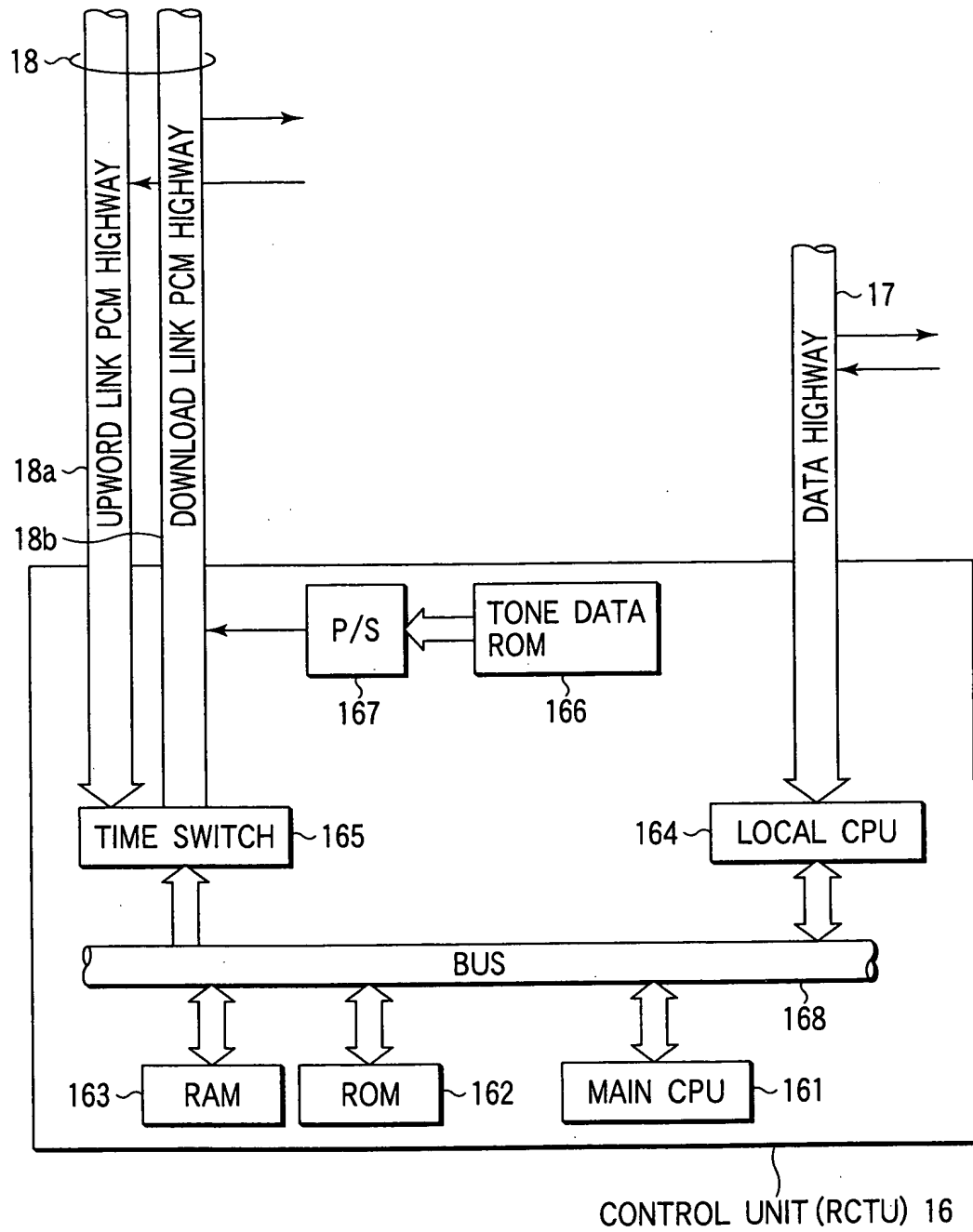


FIG. 3

00003708-112701

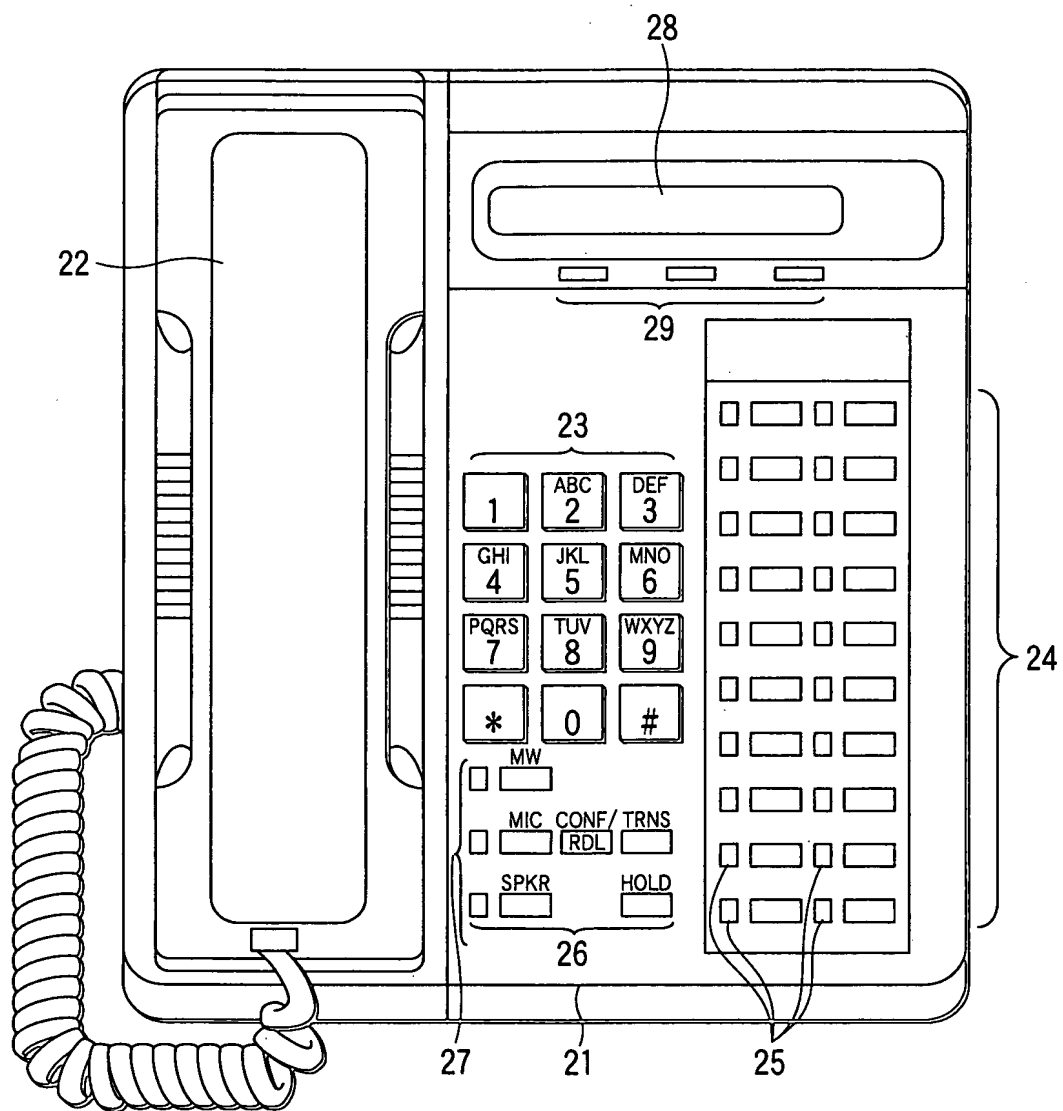


FIG. 4

FIG. 5

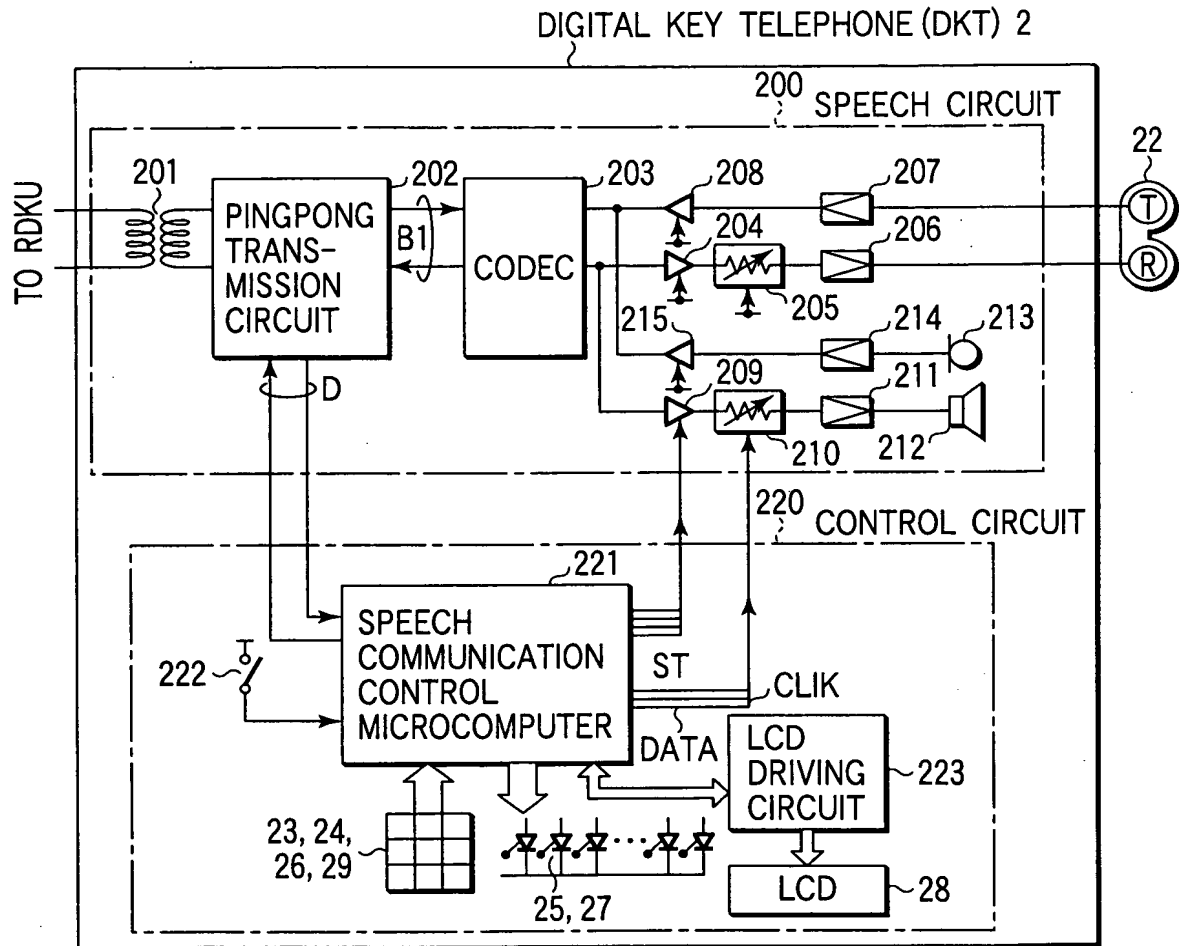


FIG. 5

2B

NEW-SCHEME KEY TELEPHONE DKT-II
(SUPPORTING BOTH NEW TRANSMISSION SCHEME AND OLD TRANSMISSION SCHEME)

NEW TRANSMISSION SCHEME

1

13B

NEW-SCHEME TELEPHONE INTERFACE UNIT RDKU-II
(SUPPORTING BOTH NEW TRANSMISSION SCHEME AND OLD TRANSMISSION SCHEME)

17

DATA HIGHWAY

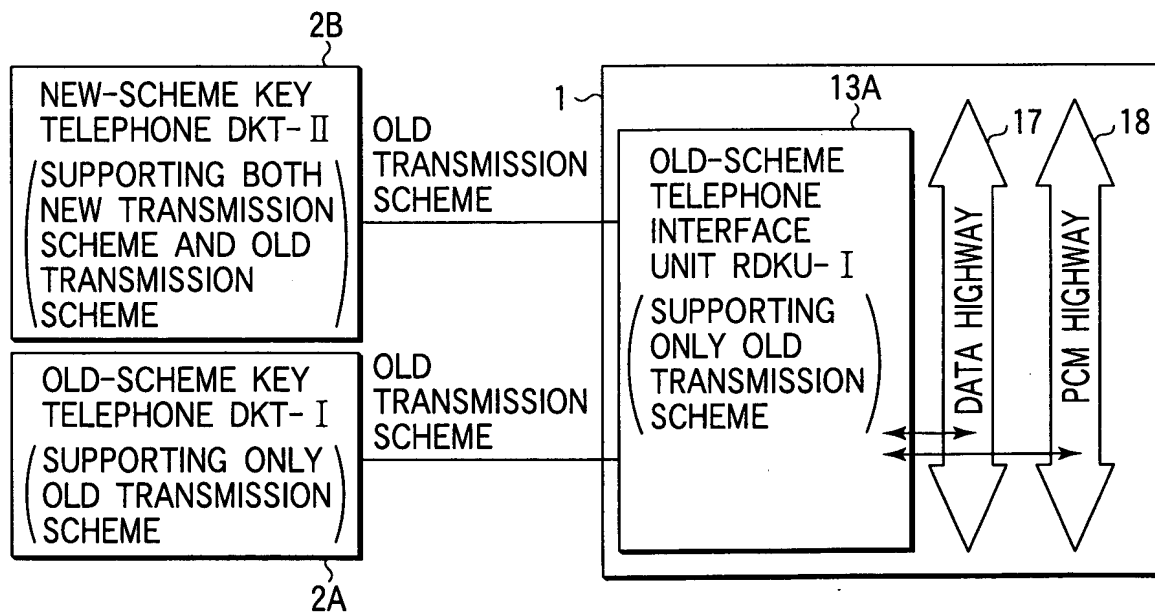
18

PCM HIGHWAY

2A

OLD-SCHEME KEY TELEPHONE DKT-I
(SUPPORTING ONLY OLD TRANSMISSION SCHEME)

OLD TRANSMISSION SCHEME



0903708-1401
T022T-802E660

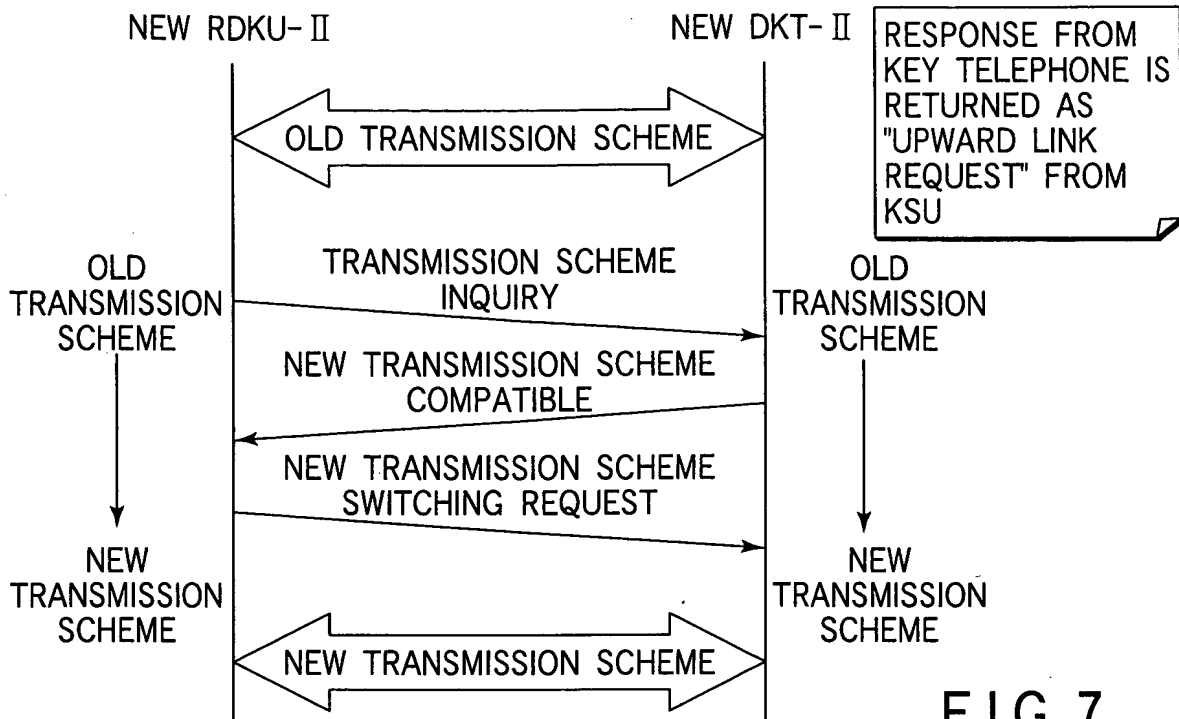


FIG. 7

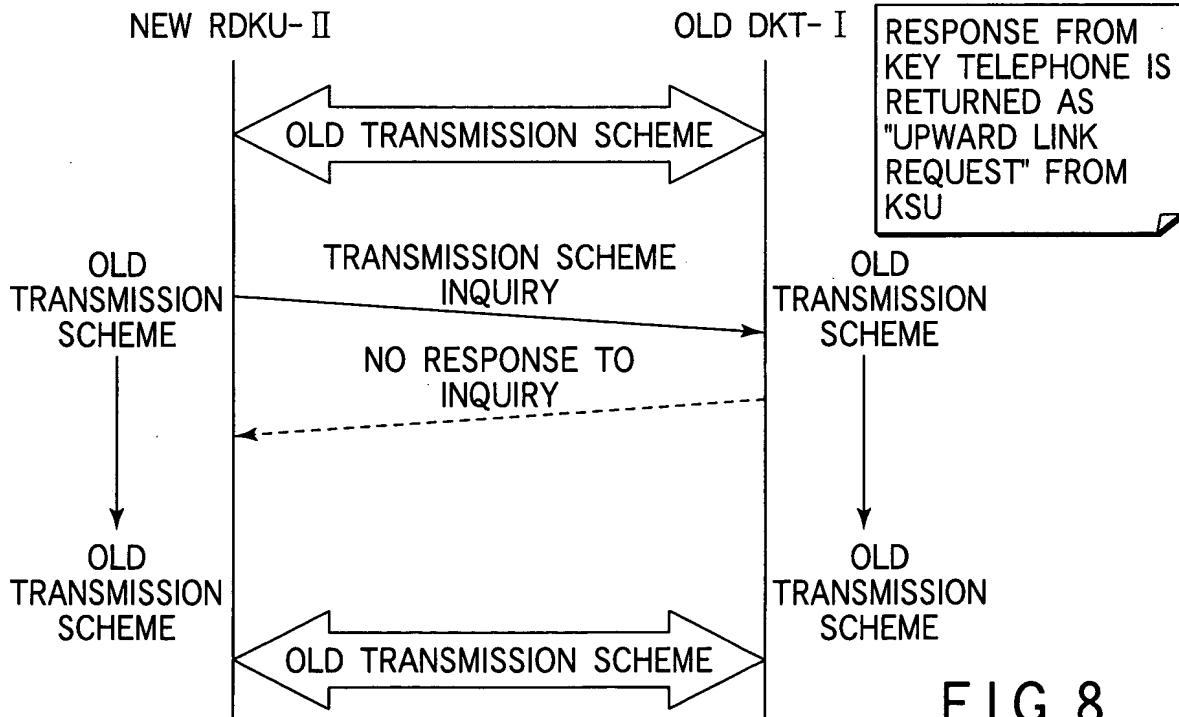


FIG. 8

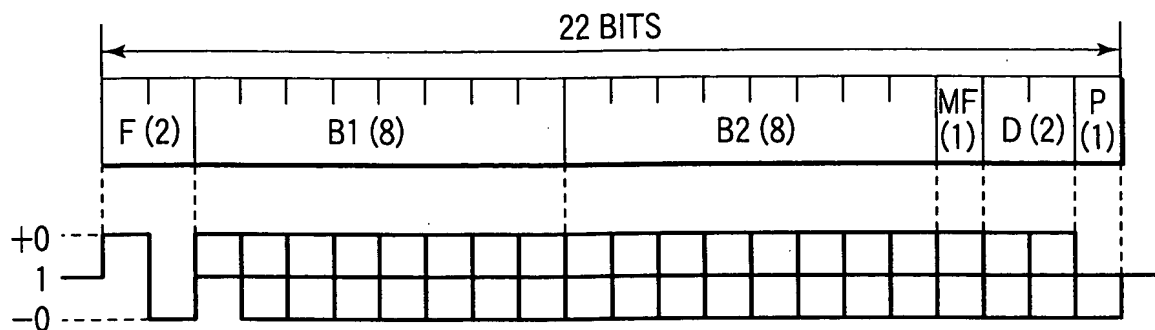


FIG. 9

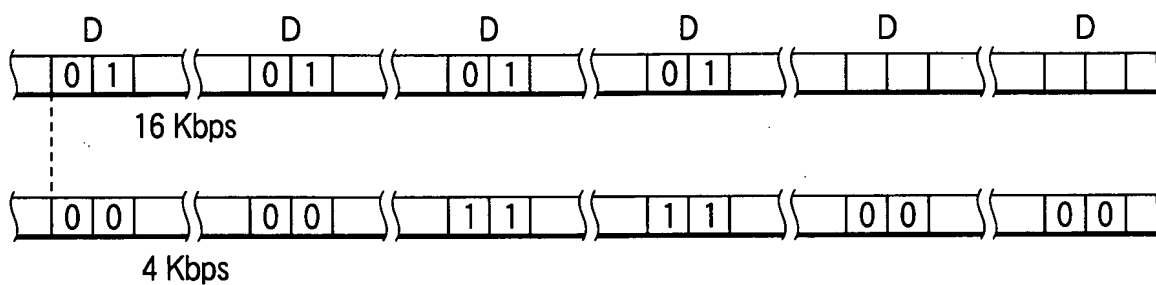


FIG. 10

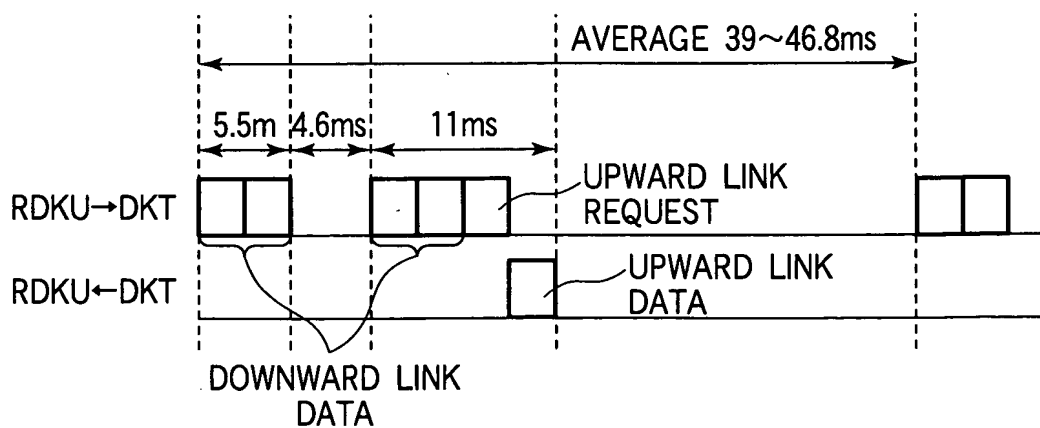
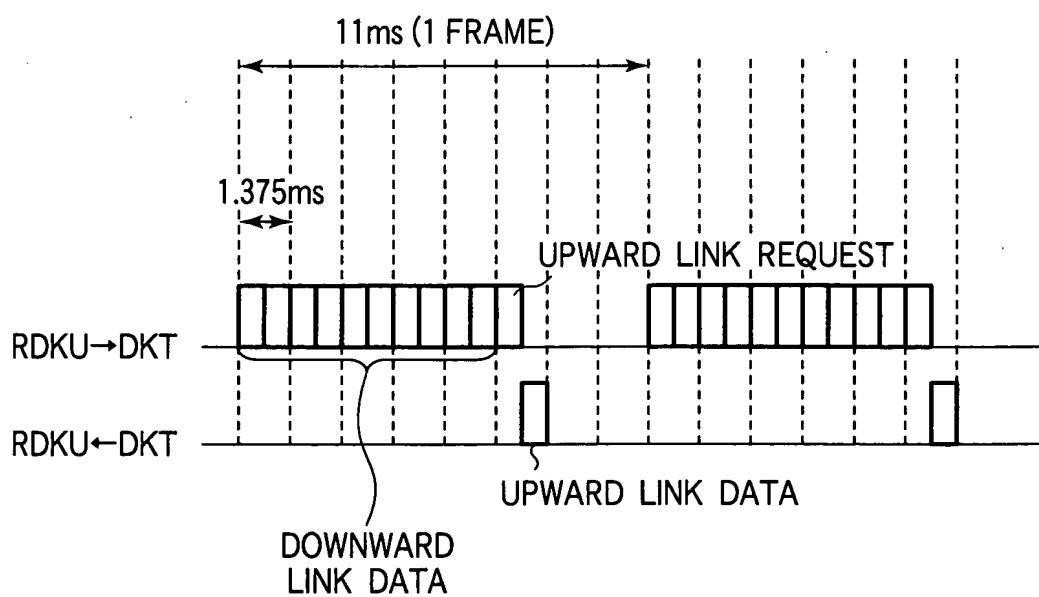


FIG. 11



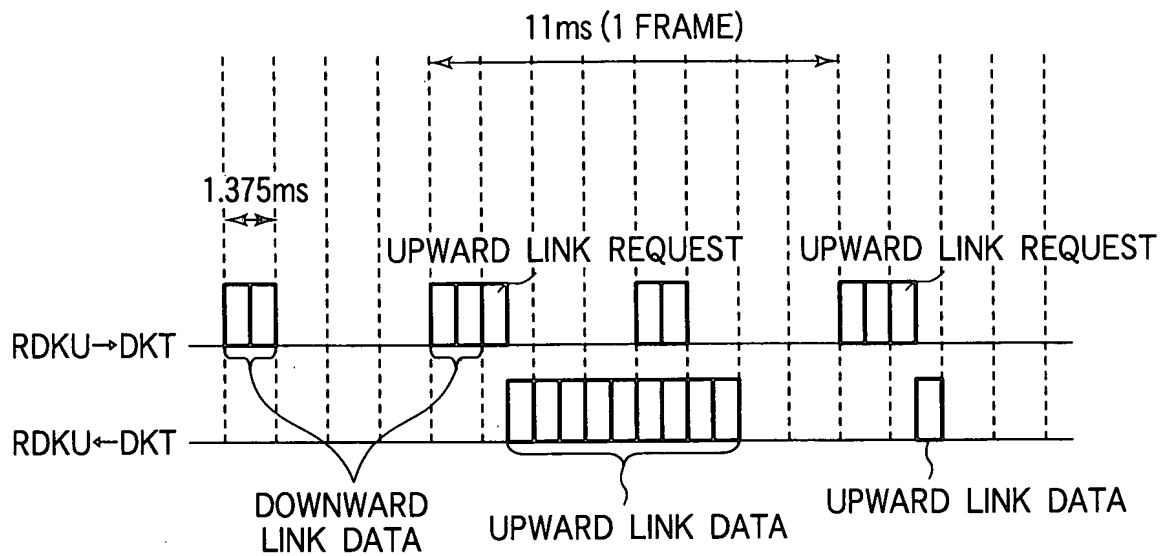


FIG. 14

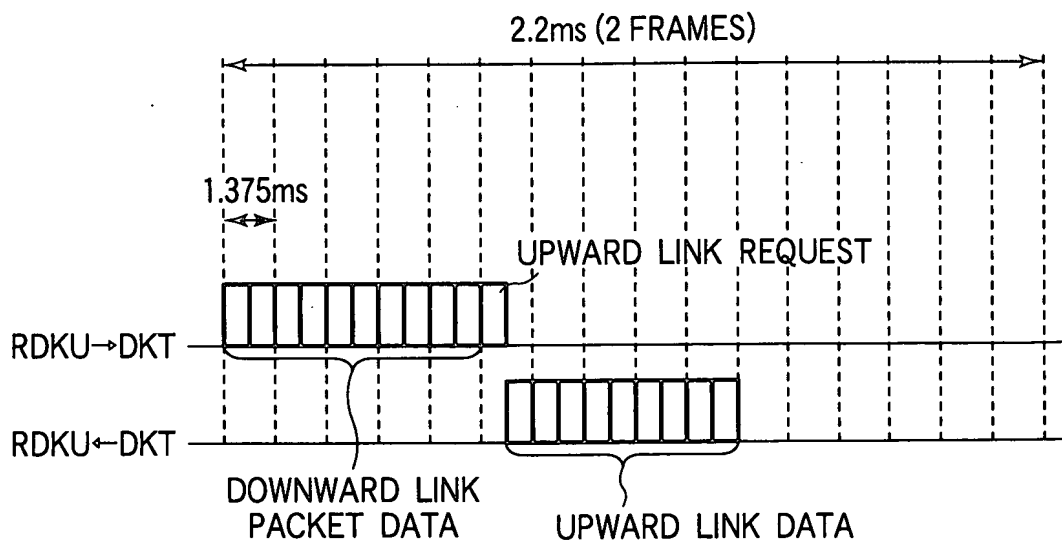


FIG. 15